

Course title	Reproduction, Growth and Development				
Course code	GEMD-204				
Course type	Required				
Level	Undergraduate				
Year / Semester	Year 2, Semester 4				
Teacher's name	Course Co-Leads: Dr Dionysios Vaidakis & Prof. George Tanteles				
ECTS	13	Teaching Periods per Week			
		Large Group Learning	Small Group Learning	Laboratories & Skills	Clinical Practice
		6	6	5	6
Course purpose and objectives	<p>The aim of the course is to enable the students to develop a well-rounded understanding of human reproduction, with an emphasis on the underlying basic sciences, and apply this to key concepts of gynaecological and obstetric clinical practice. It also aims to help the students understand the scientific basis of growth and development in children and adolescents and the impact of genetic and infectious diseases.</p> <p>Overall, the student will, by the end of the course, be able to:</p> <ul style="list-style-type: none"> • Describe in detail the physiology of menstruation from menarche to menopause and provide an outline of disorders and principles of management • Discuss methods of contraception and be able to advise on the most appropriate in a specific clinical context • Describe the key anatomical structures of the female reproductive system with an emphasis on how these relate to the physiology of reproduction and its disorders • Describe in detail the physiological changes in pregnancy and how the pregnancy is monitored • Describe in detail the stages of labour and discuss the principles of management • Describe in detail the physiological changes in the puerperium and outline complications and their management • Understand and describe the normal stages of development and growth in childhood, outline their assessment and discuss how these may be disturbed • Understand the impact of genetic disorders in childhood with an emphasis on the application of genetic science to clinical practice • Outline the presentation and assessment of infectious diseases in childhood and explain the role of immunisation in their prevention • Describe the physiology of puberty, its assessment and how it can be disturbed • Describe drugs affecting the reproductive system (drugs used for contraception, hormone replacement therapy, drugs affecting uterus, drugs to treat erectile dysfunction). 				
Learning outcomes	Due to the nature of Problem Based Learning (PBL), the full list of objectives will be available at the end of each PBL week.				

Prerequisites	None	Required	None																																										
Course content	<ul style="list-style-type: none"> • Menstruation from menarche to menopause • Methods of contraception • Infertility and its management • Pregnancy, foetal and maternal physiology and antenatal care • The physiology of labour and the puerperium and their management • Communication and clinical skills in gynaecological and obstetric practice • Neonatal adaptations to extrauterine life and principles of neonatal assessment • Genetic disorders in childhood • Childhood infections and the role of immunisation • Growth in childhood and adolescence and puberty • The assessment of development and growth in childhood and adolescence 																																												
Teaching methodology	<p>Lectures – normally two face-to-face, three on-line p/week</p> <p>Tutorials – two case-based learning small group sessions, two expert-led class discussions/debates</p> <p>Clinical and communication skills sessions</p> <p>Flipped classroom activities</p> <p>Community and/or hospital visits each week, relating to the case of the week</p> <p>Student centred learning/self-study</p>																																												
Bibliography	<p>Required textbooks/reading</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Hall and Hall</td> <td>Guyton and Hall Textbook of Medical Physiology</td> <td>14th</td> <td>Elsevier</td> <td>2020</td> <td>9780323597128</td> </tr> <tr> <td>Moore, Dalley and Agur</td> <td>Clinically Oriented Anatomy</td> <td>8th</td> <td>Wolters Kluwer</td> <td>2017</td> <td>978-1496347213</td> </tr> <tr> <td>Firth and Hurst</td> <td>Oxford Desk Reference: Clinical Genetics and Genomics</td> <td>2nd</td> <td>Oxford University press</td> <td>2017</td> <td>9780199557509</td> </tr> </tbody> </table> <p>Recommended textbooks/reading</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Impey and Child</td> <td>Obstetrics and Gynaecology</td> <td>5th</td> <td>Wiley-Blackwell</td> <td>2017</td> <td>978-1-119-01079-1</td> </tr> <tr> <td>Narcdante and Kliegman</td> <td>Nelson Essentials of Pediatrics</td> <td>8th</td> <td>Elsevier</td> <td>2018</td> <td>9780323511452</td> </tr> </tbody> </table>			Authors	Title	Edition	Publisher	Year	ISBN	Hall and Hall	Guyton and Hall Textbook of Medical Physiology	14 th	Elsevier	2020	9780323597128	Moore, Dalley and Agur	Clinically Oriented Anatomy	8 th	Wolters Kluwer	2017	978-1496347213	Firth and Hurst	Oxford Desk Reference: Clinical Genetics and Genomics	2 nd	Oxford University press	2017	9780199557509	Authors	Title	Edition	Publisher	Year	ISBN	Impey and Child	Obstetrics and Gynaecology	5 th	Wiley-Blackwell	2017	978-1-119-01079-1	Narcdante and Kliegman	Nelson Essentials of Pediatrics	8 th	Elsevier	2018	9780323511452
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Assessment	The course will be assessed at the end of Semester 2 with a Summative Final Examination consisting of Single Best Answer MCQs (SBAs) and Short Answer Questions (SAQs).
Language	English